

**Houston Ship Channel/Buffalo Bayou Tidal**

Segment: 1007 San Jacinto River Basin

**Basin number:** 10  
**Basin group:** C  
**Water body description:** From a point immediately upstream of Greens Bayou in Harris County to a point 100 meters (110 yards) upstream of US 59 in Harris County, including tidal portion of tributaries  
**Water body classification:** Classified  
**Water body type:** Tidal Stream  
**Water body length / area:** 34.5 Miles  
**Water body uses:** Aquatic Life Use, General Use, Fish Consumption Use

<b>Standards Not Met in 2004</b>				
Assessment Area	Use	Support Status	Parameter	Category
Berry Bayou Tidal	Fish Consumption Use	Not Supporting	PCBs in fish tissue	5a
Berry Bayou Tidal	Fish Consumption Use	Not Supporting	chlordan in fish tissue	5a
Berry Bayou Tidal	Fish Consumption Use	Not Supporting	dieldrin in fish tissue	5a
Berry Bayou Tidal	Fish Consumption Use	Not Supporting	dioxin in catfish and crab tissue	5a
Berry Bayou Tidal	Fish Consumption Use	Not Supporting	heptachlor epoxide in fish tissue	5a
Brays Bayou Tidal	Fish Consumption Use	Not Supporting	PCBs in fish tissue	5a
Brays Bayou Tidal	Fish Consumption Use	Not Supporting	chlordan in fish tissue	5a
Brays Bayou Tidal	Fish Consumption Use	Not Supporting	dieldrin in fish tissue	5a
Brays Bayou Tidal	Fish Consumption Use	Not Supporting	dioxin in catfish and crab tissue	5a
Brays Bayou Tidal	Fish Consumption Use	Not Supporting	heptachlor epoxide in fish tissue	5a
Houston Ship Channel/Buffalo Bayou Tidal	Fish Consumption Use	Not Supporting	PCBs in fish tissue	5a
Houston Ship Channel/Buffalo Bayou Tidal	Fish Consumption Use	Not Supporting	chlordan in fish tissue	5a
Houston Ship Channel/Buffalo Bayou Tidal	Fish Consumption Use	Not Supporting	dieldrin in fish tissue	5a
Houston Ship Channel/Buffalo Bayou Tidal	Fish Consumption Use	Not Supporting	dioxin in catfish and crab tissue	5a
Houston Ship Channel/Buffalo Bayou Tidal	Fish Consumption Use	Not Supporting	heptachlor epoxide in fish tissue	5a
Hunting Bayou Tidal	Fish Consumption Use	Not Supporting	PCBs in fish tissue	5a
Hunting Bayou Tidal	Fish Consumption Use	Not Supporting	chlordan in fish tissue	5a
Hunting Bayou Tidal	Fish Consumption Use	Not Supporting	dieldrin in fish tissue	5a
Hunting Bayou Tidal	Fish Consumption Use	Not Supporting	dioxin in catfish and crab tissue	5a
Hunting Bayou Tidal	Fish Consumption Use	Not Supporting	heptachlor epoxide in fish tissue	5a

(-based on data from 03/01/1998 to 02/28/2003)

<b>Standards Not Met in 2004</b>				
Assessment Area	Use	Support Status	Parameter	Category
Sims Bayou Tidal	Fish Consumption Use	Not Supporting	PCBs in fish tissue	5a
Sims Bayou Tidal	Fish Consumption Use	Not Supporting	chlordan in fish tissue	5a
Sims Bayou Tidal	Fish Consumption Use	Not Supporting	dieldrin in fish tissue	5a
Sims Bayou Tidal	Fish Consumption Use	Not Supporting	dioxin in catfish and crab tissue	5a
Sims Bayou Tidal	Fish Consumption Use	Not Supporting	heptachlor epoxide in fish tissue	5a
Vince Bayou Tidal	Aquatic Life Use	Partially Supporting	acute toxicity in sediment to aquatic organisms	5c
Vince Bayou Tidal	Fish Consumption Use	Not Supporting	PCBs in fish tissue	5a
Vince Bayou Tidal	Fish Consumption Use	Not Supporting	chlordan in fish tissue	5a
Vince Bayou Tidal	Fish Consumption Use	Not Supporting	dieldrin in fish tissue	5a
Vince Bayou Tidal	Fish Consumption Use	Not Supporting	dioxin in catfish and crab tissue	5a
Vince Bayou Tidal	Fish Consumption Use	Not Supporting	heptachlor epoxide in fish tissue	5a

**Parameters Removed****from the 2002 303(d) List:** pesticides in fish tissue**Additional Information:** The general use is fully supported.

<b>2004 Concerns:</b>			
Assessment Area	Use or Concern	Concern Status	Description of Concern
Berry Bayou Tidal	Narrative Criteria Concern	Concern	bacteria
Brays Bayou Tidal	Nutrient Enrichment Concern	Concern	ammonia
Houston Ship Channel/Buffalo Bayou Tidal	Nutrient Enrichment Concern	Concern	ammonia
Houston Ship Channel/Buffalo Bayou Tidal	Nutrient Enrichment Concern	Concern	nitrate+nitrite nitrogen
Houston Ship Channel/Buffalo Bayou Tidal	Nutrient Enrichment Concern	Concern	orthophosphorus
Houston Ship Channel/Buffalo Bayou Tidal	Nutrient Enrichment Concern	Concern	total phosphorus
Houston Ship Channel/Buffalo Bayou Tidal	Sediment Contaminants Concern	Concern	cadmium in sediment
Houston Ship Channel/Buffalo Bayou Tidal	Sediment Contaminants Concern	Concern	copper in sediment
Houston Ship Channel/Buffalo Bayou Tidal	Sediment Contaminants Concern	Concern	zinc in sediment
Sims Bayou Tidal	Nutrient Enrichment Concern	Concern	ammonia
Sims Bayou Tidal	Nutrient Enrichment Concern	Concern	nitrate+nitrite nitrogen
Sims Bayou Tidal	Nutrient Enrichment Concern	Concern	orthophosphorus
Sims Bayou Tidal	Nutrient Enrichment Concern	Concern	total phosphorus

(-based on data from 03/01/1998 to 02/28/2003)

<b>2004 Concerns:</b>			
<b>Assessment Area</b>	<b>Use or Concern</b>	<b>Concern Status</b>	<b>Description of Concern</b>
Vince Bayou Tidal	Nutrient Enrichment Concern	Concern	ammonia
Vince Bayou Tidal	Nutrient Enrichment Concern	Concern	orthophosphorus
Vince Bayou Tidal	Nutrient Enrichment Concern	Concern	total phosphorus

<b>Monitoring sites used:</b>		
<b>Assessment Area</b>	<b>Station ID</b>	<b>Station Description</b>
Berry Bayou Tidal	16660	BERRY BAYOU AT HOWARD DRIVE IN SOUTH EAST HOUSTON
Brays Bayou Tidal	11306	BRAYS BAYOU AT 75TH STREET
Brays Bayou Tidal	11307	BRAYS BAYOU AT IH 45 SE OF HOUSTON
Brays Bayou Tidal	11309	BRAYS BAYOU TIDAL AT SCOTT STREET IN HOUSTON
Houston Ship Channel/Buffalo Bayou Tidal	11283	HOUSTON SHIP CHANNEL/BUFFALO BAYOU HSC AT WASHBURN TUNNEL
Houston Ship Channel/Buffalo Bayou Tidal	11284	HOUSTON SHIP CHANNEL/BUFFALO BAYOU NEAR FL 165, 440 YDS BELOW VINCE BAYOU
Houston Ship Channel/Buffalo Bayou Tidal	11286	HOUSTON SHIP CHANNEL/BUFFALO BAYOU HOUSTON LIGHTING AND POWER DEEPWATER PLANT INTAKE SCREENS ON HOUSTON SHIP CHANNEL
Houston Ship Channel/Buffalo Bayou Tidal	11287	HOUSTON SHIP CHANNEL/BUFFALO BAYOU AT CONFLUENCE WITH SIMS BAYOU
Houston Ship Channel/Buffalo Bayou Tidal	11292	HOUSTON SHIP CHANNEL/BUFFALO BAYOU IN MIDDLE OF TURNING BASIN
Houston Ship Channel/Buffalo Bayou Tidal	11293	HOUSTON SHIP CHANNEL/BUFFALO BAYOU TURNING BASIN AT PORT OF HOUSTON DOCK NO. 4
Houston Ship Channel/Buffalo Bayou Tidal	11296	BUFFALO BAYOU TIDAL AT HIRSH AND YORK STREETS BRIDGE
Houston Ship Channel/Buffalo Bayou Tidal	15841	BUFFALO BAYOU AT JENSEN DR IN HOUSTON
Houston Ship Channel/Buffalo Bayou Tidal	16620	HOUSTON SHIP CHANNEL/BUFFALO BAYOU AT MAYO SHELL ROAD APPROXIMATELY 3.7 MILES SOUTH OF IH 10 IN HOUSTON
Hunting Bayou Tidal	11298	HUNTING BAYOU TIDAL AT FEDERAL ROAD BRIDGE IN HOUSTON
Sims Bayou Tidal	11302	SIMS BAYOU AT LAWNSDALE AVE. IN HOUSTON
Sims Bayou Tidal	11304	SIMS BAYOU TIDAL AT GALVESTON ROAD IN HOUSTON
Sims Bayou Tidal	15860	SIMS BAYOU TIDAL AT BROADWAY AVE IN SE HOUSTON
Vince Bayou Tidal	11299	VINCE BAYOU 300 YDS. UPSTREAM OF THE HOUSTON SHIP CHANNEL CONFLUENCE
Vince Bayou Tidal	11300	VINCE BAYOU AT NORTH RICHEY ST. IN PASADENA, TX

<b>Published studies:</b>		
<b>Publication</b>	<b>Date</b>	<b>Author</b>
AS-130/SR Vince Bayou	Aug. 1993	Conley, G (Region 12)
IS 18 Brays Bayou	Oct. 1979	Buzan, D.
IS 21 Hunting Bayou	Oct. 1979	Petrick, D.
IS 24 Sims Bayou	Sept. 1980	Petrick, D.
IS 32 White Oak Bayou	Nov. 1980	Buzan, D
IS 87-06 Houston Ship Channel	July 1984	Kirkpatrick, J.
IS 87-09 Houston Ship Channel	Feb. 1985	Kirkpatrick, J.

(-based on data from 03/01/1998 to 02/28/2003)

<b>Historical fish kills:</b>			
<b>Date</b>	<b>Location</b>	<b>Fish Killed</b>	<b>Suspected Cause</b>
6/26/1996	Brays Bayou at MacGregor Park	63360	Organic compound
9/30/1996	Little Vince Bayou at 1319 Red Bluff (Crown Petroleum)	40005	Organic compound
7/13/1998	Brays Bayou from Fannin (one mile downstream from STP) to Lawndale	16080	Organic compound